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### What is Claimed:

An asynchronous messaging architecture for processing messages, comprising:
means for detecting when an instance of an automated business process is waiting for a
response to a message, wherein a response indicates a success or failure of the message;

means for storing the instance so as to suspend processing of the instance;

means for detecting when the response associated with the instance has been received and for resuming processing of the instance; and

means for processing the response using response processing code within the instance according to the success or failure of the message.

- 2. The architecture of claim 1, wherein the response processing code is a try-catch block.
- The architecture of claim 1, wherein storing the instance takes place after a
  predetermined time.
- 4. The architecture of claim 1, wherein the instance is stored in a database.
- The architecture of claim 1, wherein the response is received on a port defined by the instance.
- The architecture of claim 1, wherein the response is a response indicative of whether or not the message was received by an intended recipient.
- A method for processing a message in an asynchronous architecture, comprising: determining that a response to a message sent by an instance of software code is to be received, wherein the response indicates a success or failure of the message;

determining whether the response has been received and, if the response has not been received, storing the instance of the software code in memory, thereby suspending the instance; receiving the response and resuming the instance; and processing the response.

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- The method of claim 7, wherein determining that the response is to be received is determined by encountering a catch block within the instance.
- The method of claim 8, wherein processing the response comprises determining whether the response indicates a failure and, if so, processing the response using the catch block.
- 10. The method of claim 9, further comprising, if the response indicates a success, processing the response by way of the instance of the software code.
- The method of claim 7, wherein storing the instance occurs after a predetermined time.
- 12. The method of claim 7, wherein storing the instance comprises storing the instance in a database and removing the instance from active memory.
- 13. The method of claim 12, wherein resuming the instance comprises removing the instance from the database and restoring the instance to active memory.
- 14. The method of claim 7, wherein the response is received on a port defined by the instance.
- 15. The method of claim 7, wherein the asynchronous architecture is implemented by way of distributed business process automation software.
- 16. The method of claim 7, wherein the message is to be received by a remote computer.
- 17. A method for processing a message in an asynchronous architecture, comprising: encountering a catch block in an instance of running business process automation software, wherein the catch block indicates that a response to a message is to be received;

determining whether the response has been received, wherein the response indicates a success or failure of the message, and if the response has not been received, storing the instance of the software code in memory, thereby suspending the instance;

receiving the response and resuming the instance in accordance with the receipt of the response; and

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processing the response.

- 18. The method of claim 17, wherein processing the response comprises determining whether the response indicates a success or failure of the message and, if the response indicates a failure, processing the response using the catch block.
- 19. The method of claim 18, further comprising, if the response is indicative of a success, processing the response within the instance of the automation software and logically after the catch block.
- 20. The method of claim 17, wherein the response is received on a port defined by the instance.
- 21. A computer-readable medium having computer-readable instructions for performing a method for processing a message in an asynchronous architecture, the method comprising: determining that a response to a message sent by an instance of software code is to be received, wherein the response indicates a success or failure of the message;

determining whether the response has been received and, if the response has not been received, storing the instance of the software code in memory, thereby suspending the instance; receiving the response and resuming the instance; and processing the response.

- 22. The computer-readable medium of claim 21, wherein determining that the response is to be received is determined by encountering a catch block within the instance.
- 23. The computer-readable medium of claim 22, wherein processing the response comprises determining whether the response indicates a failure and, if so, processing the response using the catch block.
- 24. The computer-readable medium of claim 23, further comprising, if the response indicates a success, processing the response by way of the instance of the software code.

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- 25. The computer-readable medium of claim 21, wherein storing the instance occurs after a predetermined time.
- 26. The computer-readable medium of claim 21, wherein storing the instance comprises storing the instance in a database and removing the instance from active memory.
- 27. The computer-readable medium of claim 26, wherein resuming the instance comprises removing the instance from the database and restoring the instance to active memory.
- 28. The computer-readable medium of claim 21, wherein the response is received on a port defined by the instance.
- 29. The computer-readable medium of claim 21, wherein the asynchronous architecture is implemented by way of distributed business process automation software.
- 30. The computer-readable medium of claim 21, wherein the message is to be received by a remote computer.
- 31. A computer-readable medium having computer-readable instructions for performing a method for processing a message in an asynchronous architecture, the method comprising:

encountering a catch block in an instance of running business process automation software, wherein the catch block indicates that a response to a message is to be received;

determining whether the response has been received, wherein the response indicates a success or failure of the message and, if the response has not been received, storing the instance of the software code in memory, thereby suspending the instance;

receiving the response and resuming the instance in accordance with the receipt of the response; and

processing the response.

32. The computer-readable medium of claim 31, wherein processing the response comprises determining whether the response indicates a success or failure of the message and, if the response indicates a failure, processing the response using the catch block.

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- 33. The computer-readable medium of claim 32, further comprising, if the response is indicative of a success, processing the response within the instance of the automation software and logically after the catch block.
- 34. The computer-readable medium of claim 31, wherein the response is received on a port defined by the instance.